

# Weekly Report for 10/12/2015

## APS Renewal and Upgrade

- Started particle loss simulation with a new collimator configuration scheme (Aimin Xiao)

## MCR Operations

### Storage Ring Operations

- Made requested steering for ID29. To give more rooms on DS BPLD limits, BPMs (P1) offset for ID29 was measured and installed, then re-balanced between position and angle steering. (Aimin Xiao)

### Linac Operations

- Submitted a 2016 project proposal for Laser Maintenance, #3371. (Jeff Dooling)

### Procedures

- Master Procedure for In-Tunnel Work Without LOTO (APS\_1191867) (Randy Flood)

### Training

- ASD125 (Randy Flood)
- EM116 (Randy Flood)

### MCR Operations administrative/misc.

- Attended Handling Employee Issues (Randy Flood)
- Started writing employee appraisals and collected matrix feedback (Randy Flood)
- Approved operators' time cards (Randy Flood)
- Approved vacation requests, set up coverage and updated the online schedule (Randy Flood)
- Approve CTLs, IT and Other work requests (Randy Flood)

## APS Machine Studies

### Storage Ring Studies

- Met with K. Harkay to discuss organizing and analyzing past injection kicker study data. (Jeff Dooling)

### Linac Studies

- On Monday was able achieve beam-based alignment using both M1 and M2 motorized mirrors on the linac optics table. Maximum charge from the PC Gun now is 300 pC. (Jeff Dooling)
- A. Pietryla has suggested a solution for BPMs in Asynch mode but this will require several months to implement. (Jeff Dooling)
- Analyzed solenoid scan data but found an issue with size calibration converting pixels to lines. (Jeff Dooling)

## APS Machine Research and Development

### Linac Research and Development

- Presented PC Gun drive laser status and recent measurements at the Wednesday PiP meeting. (Jeff Dooling)

## APS Machine Software

### Storage Ring

- improved storagering HP9000 ScopeSaveRestore, made it work for peak dect mode and corrected the time computation in normal mode when interpolation mode is on. (This is important because we finally understand why the collected data points is 16 times of the scope waveform points) (Hairong Shang)
- studied MXA manual and setup configuration files for HOM measurement, modified CollectRFSpectrum to setup HOM through restoring a pre-saved configuration, thus avoided sending wrong commands to MXA and make sure the MXA is correctly setup for HOM measurement; added option of changing resolution bandwidth to each measurement. (Hairong Shang)
- tested single gap scan with ID gap feedforward and XRDP orbit correction running, installed APSSRGapFullScan.tcl and APSMpSRGapFFScan.tcl. (Hairong Shang)
- fixed a problem of SRFitGap (ID gap brief scan application) in making the group buttons where the parent widget does not exist if there are IDs being moved. (Hairong Shang)
- fixed important typos in APSMpID.tcl where the [ and } did not match. (Hairong Shang)
- commented out suspend/resume ID gap feedforward in steering pem to keep the other ID xray bpms stable during steering, and it does not affect the orbit correction since the corresponding xray bpms are removed from orbit correction. (Hairong Shang)

### General

- added MV200 systems to SCR and added "LI:VD1" video to MV200 systems. (Hairong Shang)
- fixed a problem of getting variable values in SCR (SaveCompareRestore) when the variable name has ':' in it, this occurred when new system LI:VD1 was added. (Hairong Shang)

### IOC/EPICS/Controls/Linux/Solaris/Linux Clusters/Data Loggers/Simulation software

- Administer the EPICS CVS repository to ensure current versions are installed and conflicts are tracked down and eliminated. (Randy Flood)

## Meetings, workshops, conferences, committees, LMS related, and reviews

- Attended meeting on revising RSS configuration control (Randy Flood)
- Presented stats and operational issues to Ops Directorate meeting (Randy Flood)

## Safety and Required Training

- Finished training on LMSPROC137 and EM116 (Aimin Xiao)

## Miscellaneous

- Administer multiple mailing lists and the elegant forum (Randy Flood)
- Made machine study schedule for next week (Aimin Xiao)
- Took one day vacation off (Aimin Xiao)

- Vacation day Friday. (Jeff Dooling)